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Substitute for form 1449A/PTO		INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
INVENT & TRADEMARK				Application Number	09/020,393
		Filing Date	February 9, 1998		
		First Named Inventor	Dr. Peter J. Sims		
		Group Art Unit	Not yet assigned		
		Examiner Name	Not yet assigned		
Sheet	1	of	14	Attorney Docket Number	OMRF 170

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number	09/020,393
Filing Date	February 9, 1998
First Named Inventor	Dr. Peter J. Sims
Group Art Unit	Not yet assigned 1644
Examiner Name	Not yet assigned
Attorney Docket Number	OMRF 170

Sheet

1

of

14

Attorney Docket Number

OMRF 170

Sheet 1 of 14 Attorney Docket Number OMRF 170

U.S. PATENT DOCUMENTS

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Examiner's
Signature

Philip Gruber

6/7/99

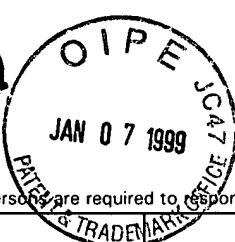
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				First Named Inventor	Dr. Peter J. Sims
				Group Art Unit	Not yet assigned
				Examiner Name	Not yet assigned
Sheet	2	of	14	Attorney Docket Number	OMRF 170

OTHER ART -- NON PATENT LITERATURE DOCUMENTS						
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cit and/or country where published				T ²
<i>Al</i>		AGRAWAL, et al., "Oligodeoxynucleoside phosphoramidates and phosphorothioates as inhibitors of human immunodeficiency virus," <i>Proc. Natl. Acad. Sci. USA</i> 85(19):7079-7083 (1988).				
		ALLEN, et al., "The Cambridge Crystallographic Data Centre: Computer-Based Search, Retrieval, Analysis and Display of Information," <i>Acta Cryst. B</i> 35:2331-2339 (1979).				
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		ANDO, et al., "The Secretory Release Reaction Initiated by Complement Proteins C5b-9 Occurs Without Platelet Aggregation Through Glycoprotein IIb-IIIa," <i>Blood</i> 73(2):462-467 (1989).				
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		BLAAS, et al., "Paroxysmal Nocturnal Hemoglobinuria" <i>J. Immunology</i> 140:3045-3051 (1988).				
		BODIAN, et al., al., "Mutational Analysis of the Active Site and Antibody Epitopes of the Complement-inhibitory Glycoprotein CD59," <i>J. Exp. Med.</i> 185(3):507-516 (1997).				
<i>M</i>		BRAGA, et al. "A Monoclonal Antibody to the Galactose-Specific Adhesin Abrogates the resistance of <i>E. histolytica</i> to Lysis by Human Complement C5b-9" <i>XIV International Complement Workshop</i> Cambridge, U.K. (1991).				
Examiner's Signature	<i>Pitman Gmb GL</i>			Date Considered	6/7/99	

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				First Named Inventor	Dr. Peter J. Sims
				Group Art Unit	Not yet assigned (1644)
				Examiner Name	Not yet assigned
Sheet	3	of	14	Attorney Docket Number	OMRF 170

OTHER ART - NON PATENT LITERATURE DOCUMENTS						
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cit and/or country where published				T ²
<i>PL</i>		BRINT, "Upperbound procedures for the identification of similar three-dimensional chemical structures," et al., <i>J. Comput.-Aided Mol. Design</i> 2:311-310 (1988).				
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		CHANG, et al. "Identity of a Peptide Domain of Human C9 That Is Bound by the Cell-surface Complement Inhibitor, CD59," <i>J. Biol. Chem.</i> 269(42):26424-26430 (1994).				
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		DAVIES, et al. "Membrane Defense against Complement Lysis: The Structure and Biological Properties of CD59," <i>Immunol. Res.</i> 12(3):258-275 (1993).				
		DUPUIS, et al., "Mutations in the Putative Lipid-Interaction Domain of Complement C9 Result in Defective Secretion of the Functional Protein," <i>Mol. Immunol.</i> 30(1):95-100 (1993).				
<i>PL</i>		FLETCHER, et al., "Sequence-specific ¹ H-NMR assignments and folding topology of human CD59," <i>Protein Sci.</i> 2:2015-2027 (1993).				
Examiner's Signature	<i>PHILIP GAMBLE 6/7/99</i>			Date Considered		

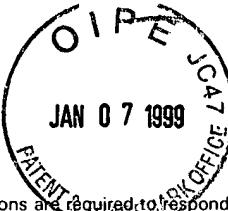
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<u>INFORMATION DISCLOSURE STATEMENT BY</u> <u>APPLICANT</u> (use as many sheets as necessary)				Application Number	09/020,393
Sheet	4	of	14	Filing Date	February 9, 1998
				First Named Inventor	Dr. Peter J. Sims
				Group Art Unit	Not yet assigned 1614
				Examiner Name	Not yet assigned
				Attorney Docket Number	OMRF 170

OTHER ART -- NON PATENT LITERATURE DOCUMENTS					
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cit and/or country where published			T ²
<i>PL</i>		FLETCHER, et al., "Structure of soluble, glycosylated form of the human complement regulatory protein CD59," <i>Structure</i> 2:185-199 (1994).			
<i>PL</i>		GERBER, et al., "Phosphatidylinositol Glycan (PI-G) Anchored Membrane Proteins," <i>J. Biol. Chem.</i> 267(17):12168-12173 (1992).			
<i>PL</i>		GHOSHAL, et al., "Computer Aids in Drug Design - Highlights" <i>Pol. J. Pharmacol.</i> 48(4): 359-377 (1996).			
<i>PL</i>		GILBERT, et al. "Platelet-derived Microparticles Express High Affinity Receptors for Factor VIII" <i>J. Biol. Chem.</i> 266(8): 1-8 (1991).			
<i>PL</i>		GREGORIADIS, "Liposomes," in <i>Drug Carriers in Biology and Medicine</i> , Chap. 14. pp. 287-341 (Academic Press, 1979).			
<i>PL</i>		GROUX, et al., "A 19-kDa Human Erythrocyte Molecule H19 is Involved in Rosettes, Present on Nucleated Cells, and Required for T Cell Activation," <i>J. Immunology</i> 142(9):3013-3020 (1989).			
<i>PL</i>		HAHN, et al. "Overlapping But Nonidentical Binding Sites on CD2 for CD58 and a second Ligand CD59" <i>Science</i> 256: 1805-1807 (1992).			
<i>PL</i>		HAMILTON, et al. "The Terminal Complement Proteins C5b-9 Augment Binding of High Density Lipoprotein and its Apolipoproteins A-I and A-II to Human Endothelial Cells" <i>J. Clin. Invest.</i> 88: 1833-1840 (1991).			
<i>PL</i>		HAMILTON, et al., "Complement Proteins C5b-9 Induce Vesiculation of the Endothelial Plasma Membrane and Expose Catalytic Surface for Assembly of the Prothrombinase Enzyme Complex" <i>J. Bio. Chem.</i> , 265:3809-3814 (1990)			
<i>PL</i>		HAMILTON, et al., "Regulatory Control of the Terminal Complement Proteins at the Surface of Human Endothelial Cells: Neutralization of a C5b-9 Inhibitor by Antibody to CD59," <i>Blood</i> 76(12):2572-2577 (1990).			
<i>PL</i>		HAMILTON, et al., "Regulatory Control of the Terminal Proteins at the Surface of Human Endothelial Cells: Neutralization of a C5b-9 Inhibitor by Antibody to CD59," <i>Blood</i> 76(12): 2572-2577 (1990).			
Examiner's Signature	<i>Philip Gamber</i>			Date Considered 6/7/99	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number	09/020,393
			Filing Date	February 9, 1998
			First Named Inventor	Dr. Peter J. Sims
			Group Art Unit	Not yet assigned 1644
			Examiner Name	Not yet assigned
Sheet	5	of	14	Attorney Docket Number
OMRF 170				

OTHER ART -- NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cit and/or country where published	T ²
<i>ll</i>		HANSCH, et al. "Paroxysmal Nocturnal Hemoglobinuria Type III" <i>J. Clin. Invest.</i> 80:7-12 (1987).	
		HANSCH, et al., "Release of C8 Binding Protein (C8bp) From the Cell Membrane by Phosphatidylinositol-Specific Phospholipsae C," <i>Blood</i> 72(3):1089-1092 (1988).	
		HARADA, et al., "Monoclonal antibody G6K12 specific for membrane-associated differentiation marker of human stratified squamous epithelia and squamous cell carcinoma," <i>J. Oral Pathol. Med.</i> (Denmark), 22(4):145-152 (1993).	
		HATANAKA, et al., "The functions of the ninth component of human complement are sustained by disulfide bonds with different susceptibilities to reduction," <i>Biochim. Biophys. Acta Protein Struct. Mol. Enzymol.</i> 1209(1):117-122 (1994).	
		HATTORI, et al. "Complement Proteins C5b-9 Induce Secretion of High Molecular Weight Multimers of Endothelial von Willebrand Factor and Translocation of Granule Membrane Protein GMP-140 to the Cell Surface," <i>J. Biol. Chem.</i> 264(15):9053-9060 (1989).	
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		HOGAN, et al., <i>Manipulating Mouse Embryo: a Laboratory Manual</i> Cold Spring Harbor Laboratory (1986)	
		HOLGUIN, et al., "Isolation and Characterization of a Membrane Protein from Normal Human Erythrocytes That Inhibits Reactive Lysis of the Erythrocytes of Paroxysmal Nocturnal Hemoglobinuria," <i>J. Clin. Invest.</i> 84(1):7-17 (1989).	
		HOULE, et al., "Evidence for restriction of the ability of complement to lyse homologous Erythrocytes," <i>J. Immunol.</i> 133:1444-1452 (1984).	
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		HUANG et al., "Development of a Common 3D Pharmacophore for Delta-Opioid Recognition From Peptides and Non-Peptides Using a Novel Computer Program" <i>J. Comput. Aided Mol. Des.</i> 11(1):21-78 (1997).	
<i>ll</i>		HUSLER, et al., "Chimeras of Human Complement C9 Reveal the Site Recognized by Complement Regulatory Protein CD59," <i>J. Biol. Chem.</i> 270(8):3483-3486 (1995).	
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	6/7/99		

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				Group Art Unit	Not yet assigned 1674
				Examiner Name	Not yet assigned
Sheet	6	of	14	Attorney Docket Number	OMRF 170

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<i>PL</i>		HUSLER, et al., "Role of a Disulfide-bonded Peptide Loop within Human Complement C9 in the species-Selectivity of Complement Inhibitor CD59", <i>Biochem.</i> , 35(10):3263-3269 (1996)				
<i>PL</i>		INAI, et al., "Immunohistochemical detection of an enamel protein-related epitope in rat bone at an early stage of osteogenesis," <i>Histochemistry</i> (Germany), 99(5):335-362 (1993).				
<i>PL</i>		ITAKURA, et al., "Synthesis and Use of Synthetic Oligonucleotides," in <i>Ann. Rev. Biochem.</i> 53:323-356 (1984).				
<i>PL</i>		KABAT, et al., Sequences of Proteins of Immunological Interest, 4th Ed. (U.S. Dept. Health and Human Services, Bethesda, MD, 1987)				
<i>PL</i>		KIEFFER, et al., "Three-Dimensional Solution Structure of the Extracellular Region of the Complement Regulatory Protein CD59, a New Cell-Surface Protein Domain Related to Snake Venom Neurotoxins," <i>Biochemistry</i> 33:4471-4482 (1994).				
<i>PL</i>		KINOSHITA, et al., "Defective Glycosyl Phosphatidylinositol Anchor Synthesis and Paroxysmal Nocturnal Hemoglobinuria," <i>Adv. Immunol.</i> 60:57-103 (1995).				
<i>PL</i>		KLEINBERG, et al., "New Approaches and Technologies in Drug Design and Discovery" <i>Am. J. Health Syst. Pharm.</i> 52(12):1323-1336 (1995).				
<i>PL</i>		KOOYMAN, et al. "In Vivo Transfer of GPI-Linked Complement Restriction Factors from Erythrocytes to the Endothelium" <i>Science</i> 269:89-92 (1995).				
<i>PL</i>		KORTY, et al. "CD59 Functions as a Signal-Transducing Molecule for Human T Cell Activation" <i>J. Immunol.</i> 146:4092-4098 (1991)				
<i>PL</i>		KUBINYI, "Strategies and Recent Technologies in Drug Discovery" <i>Pharmazie</i> 50(10):647-662 (1995).				
<i>PL</i>		LAZAR, et al., "Transforming Growth Factor :Mutation of Aspartic Acid 47 and Leucine 48 Results in Different Biological Activities," <i>Molecular and Cellular Biology</i> 8(3):1247-1252 (1988).				
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		Group Art Unit	Not yet assigned 1641
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Sheet	7	of	14
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OTHER ART -- NON PATENT LITERATURE DOCUMENTS

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PL		LEWIS, et al., "Automated site-directed drug design: the concept of spacer skeletons for primary structure generation," <i>Proc. R. Soc. Lond.</i> , 236(1283):125-140 (1989)	
		LEWIS, et al., "Automated site-directed drug design: the formation of molecular templates in primary structure generation," <i>Proc. R. Soc. Lond.</i> , 236(1283):141-162 (1989)	
		LI, et al., "A computer Screening Approach to Immunoglobulin Superfamily Structures and Interactions: Discovery of Small Non-Peptidic CD4 Inhibitors and Novel Immunotherapeutics" <i>Proc. Natl. Acad. Sci. USA</i> 94(1):73-78 (1997).	
		LIN, et al. "A family showing inheritance of the Inab phenotype" <i>Transfusion</i> 28: 427-429 (1988).	
		LUBLIN, et al., "Decay-Accelerating Factor and Membrane Cofactor Protein," <i>Current Topics Microbiol. Immunol.</i> 153:123-145 (1989).	
		LYBRAND, "Ligand-Protein Docking and Rational Drug Design" <i>Curr. Opin. Struct. Biol.</i> 5(2):224-228 (1995).	
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Examiner's Signature	Philip Grambs	6/7/99	Date Considered

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Sheet 8 of 14

Application Number	09/020,393
Filing Date	February 9, 1998
First Named Inventor	Dr. Peter J. Sims
Group Art Unit	Not yet assigned 1644
Examiner Name	Not yet assigned
Attorney Docket Number	OMRF 170

OTHER ART -- NON PATENT LITERATURE DOCUMENTS

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M		NAKANO, et al., "Determination of the Active Site of CD59 with Synthetic Peptides," <i>Mol. Immunol.</i> 32(4):241-247 (1995).	
		NARANG, et al., "Chemical Synthesis of Deoxyoligonucleotides by the Modified Triester Method," in <i>Methods Enzymol.</i> 65:610-620 (1980).	
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Examiner's Signature	PHILLIP GAMBRE	6/7/99	Date Considered

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				Group Art Unit	Not yet assigned 1644
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M		PANGBURN, et al., "Deficiency of an erythrocyte membrane protein with complement regulatory activity in paroxysmal nocturnal hemoglobinuria," <i>Proc. Natl. Acad. Sci. USA</i> 80:5430-5434 (1983).				
1		PERRY & DAVIES, <u>QSAR: Quantitative Structure-Activity Relationships in Drug Design</u> pp. 189-193 (Alan R. Liss, inc. 1989)				
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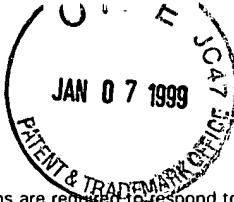
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<i>PL</i>		SCHALLER, et al., "Identification of the Disulfide Bonds of the Human Complement Component C9 and Comparison with the Other Terminal Components of the Membrane Attack Complex," <i>J. Protein Chem.</i> 13:472-473 (1994).	
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<i>PL</i>		SIMS, "Complement Protein C9 Labeled with Flourescein Isothiocyanate Can Be Used to Monitor C9 Polymerization and Formation of the Cytolytic Membrane Lesion" <i>Biochemistry</i> 23: 3248-3260 (1984).	
<i>PL</i>		SIMS, et al. "The response of human platelets to activated components of the complement system" <i>Immunology Today</i> 12(9): 338-342 (1991).	
<i>PL</i>		SIMS, et al., "Assembly of the Platelet Prothrombinase Complex Is Linked to Vesiculation of the Platelet Plasma Membrane," <i>J. Biol. Chem.</i> 264(29):17049-17057 (1989).	
Examiner's Signature	<i>Philip Gamber</i> 6/7/99		Date Considered

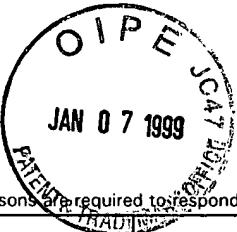
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M		SIMS, et al., "Complement Proteins C5b-9 Cause Release of Membrane Vesicles for the Platelet Surface That Are Enriched in the Membrane Receptor for Coagulation Factor VA and Express Prothrombinase Activity," <i>J. Biol. Chem.</i> 263(34):18205-18212 (1988).				
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		^ STEWART, et al., "Orientation of Human CD59 Upon Insertion into the Phospholip Bilayer. A Fluorescent Resonance Energy Transfer Study" <i>Biophysical Journal</i> 59:48 (1991). (abstract)				
		SUGITA, et al. "Isolation from Human Erythrocytes of a New Membrane Protein Which Inhibits the Formation of Complement Transmembrane Channels," <i>J. Biochem</i> 104: 633-637 (1988).				
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<i>PL</i>		SZOSTAK, "In Vitro genetics," <i>TIBS</i> 19:89-93 (1992).				
<i>PL</i>		TAO, et al., "Studies of Aglycosylated Chimeric Mouse-Human IgC," <i>J. Immunology</i> 43(8):2595-2601 (1989).				
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		TAYLOR, et al., "The Word Wide Web as a graphical user interface to program macros for molecular graphics, molecular modeling, and structure-based drug design" <i>J. Mol. Graph.</i> 14(5):291-296 (1996).				
		TELEN, "Identification of Human Erythrocyte Blood Group Antigens on Decay-Accelerating Factor (DAF) and an Erythrocyte Phenotype Negative for DAF" <i>J. Exp. Med</i> 167: 1993-1998 (1988).				
		TERSTAPPEN, et al. "Expression of the DAF (CD55) and CD59 antigens during normal hematopoietic cell differentiation" <i>Journal of Leukocyte Biology</i> 52:652-660 (1992).				
		VAN DE MEER, et al., "Complement Proteins C5b-9 Induce Transbilayer Migration of Membrane Phospholipids," <i>Biophys. J.</i> 56:935-946 (1989)				
		VENKATESWARAN, et al., "Production of Anti-Fibroblast Growth Factor Receptor Monoclonal Antibodies by In Vitro Immunization," <i>Hybridoma</i> 11(6):729-739 (1992).				
		WEINER, et al., "A New Force Field for Molecular Mechanical Simulation of Nucleic Acids and Proteins," <i>J. Am. Chem. Soc.</i> 106(3):765-784 (1984).				
		WENDOLOSKI, et al., "Biophysical Tools for Structure-Based Drug Design" <i>Pharmacol. Ther.</i> 60(2):169-183 (1993).				
<i>PL</i>		WIEDMER, et al. "Complement Proteins C5b-9 Stimulate Procoagulant Activity through Platelet Prothrombinase" <i>Blood</i> 68(4): 875-880 (1986).				
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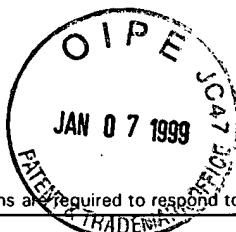
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				Group Art Unit	Not yet assigned <i>1697</i>
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<i>M</i>		WIEDMER, et al., "Complement C5b-9-stimulated Platelet Secretion Is Associated with a Ca ²⁺ -initiated Activation of Cellular Protein Kinases," <i>J. Biol. Chem.</i> 262(28):13674-13681 (1987).				
<i>M</i>		WIEDMER, et al., "On the Mechanism by Which Complement Proteins C5b-9 Increase Platelet Prothrombinase Activity," <i>J. Biol. Chem.</i> 261(31):14587-14592 (1986).				
<i>M</i>		WIEDMER, et al. "Participation of Protein Kinases in Complement C5b-9- Induced Shedding of Platelet Plasma Membrane Vesicles" <i>Blood</i> 78(11):1-7 (1991).				
<i>M</i>		WIEDMER, et al., "Role of Calcium and Calpain in Complement-Induced Vesiculation of the Platelet Plasma Membrane and in the Exposure of the Platelet Factor VA Receptor," <i>Biochemistry</i> 29:623-632 (1990).				
<i>M</i>		WIEDMER, et al., "Effect of Complement Proteins C5b-9 on Blood Platelets," <i>J. Biol. Chem.</i> 260(13):8014-8019 (1984).				
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<i>M</i>		WURZNER, et al. "Inhibition of Terminal Complement Complex Formation and Cell Lysis by Monoclonal Antibodies" <i>Complement Inflamm.</i> 8: 328-340 (1991).				
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<i>M</i>		YU, et al., "Mapping the Active Site of CD59," <i>J. Exp. Med.</i> 185(4):745-753 (1997).				
<i>M</i>		ZALMAN, et al., "Deficiency of the Homologous Restriction Factor in Paroxysmal Nocturnal Hemoglobinuria," <i>J. Exp. Med.</i> 165:572-577 (1987).				
Examiner's Signature	<i>PHILLIP GRIMBER 6/7/98</i>			Date Considered		

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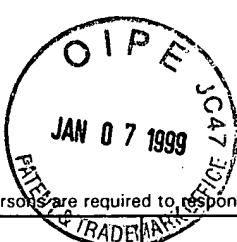
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